

**R**ELIABILITY, accurate controls and plenty of stamina have made Lincoln's famous "6090" the world's most popular 200 ampere, engine driven, portable welder. Weldors on pipelines, construction jobs and contract repair work have for years depended on it to help them produce the best welds possible on any job.

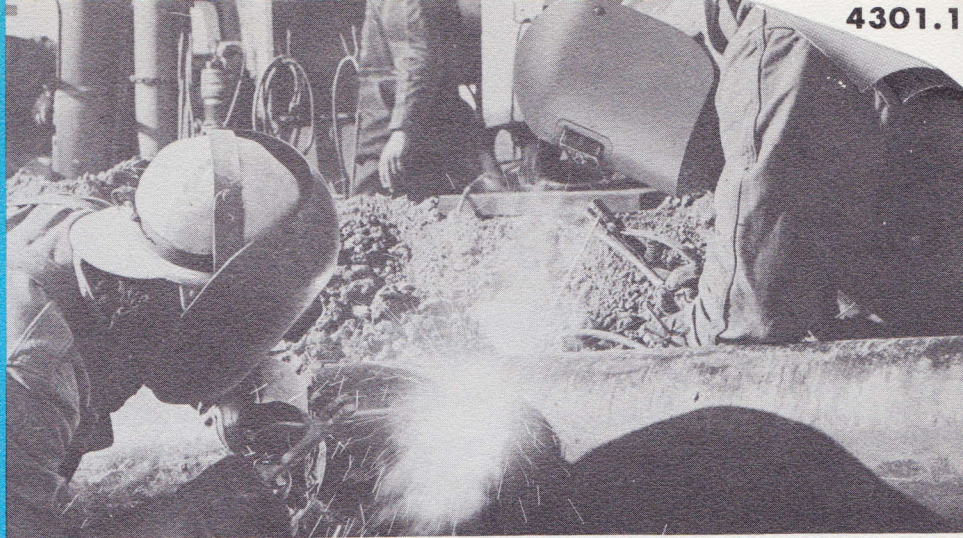
**RELIABILITY**—Start the "Shield-Arc K-6090", set it for the job, and go to work. This welder is made for work. It starts easily, holds a steady heat all day, works continuously without laboring, and can stand the abuse of transporting over rough terrain without faltering.

Operating at low engine speeds, the K-6090 requires little maintenance and care. New "6090" owners are amazed at its long trouble-free life.

**ACCURATE CONTROLS**—Each weldor has his own preference for machine settings that let him do his best work. Using Lincoln's dual controls, he can select exactly the arc he wants. He uses the current control to pick the welding heat, and the voltage control to get the desired degree of arc "snappiness" and to fine-tune the welding heat. Nearly every weldor is familiar with Lincoln portable welders and most weldors prefer them.

**STAMINA**—The reserve capacity built into these machines lets them work easier, last longer, and give rated output even at high altitudes. It takes an engine with plenty of stamina to run these welders day after day in all kinds of weather and terrain. The rugged Continental engines used on the K-6090's are especially well suited to welder operation as proved by their long history of excellent service.

Of course, the NEMA rated SA-200 has the patented Lincoln engine idler to conserve fuel when not welding, as well as a standard outlet for 115 volt power for lights and tools.



**LINCOLN**  
WELDERS

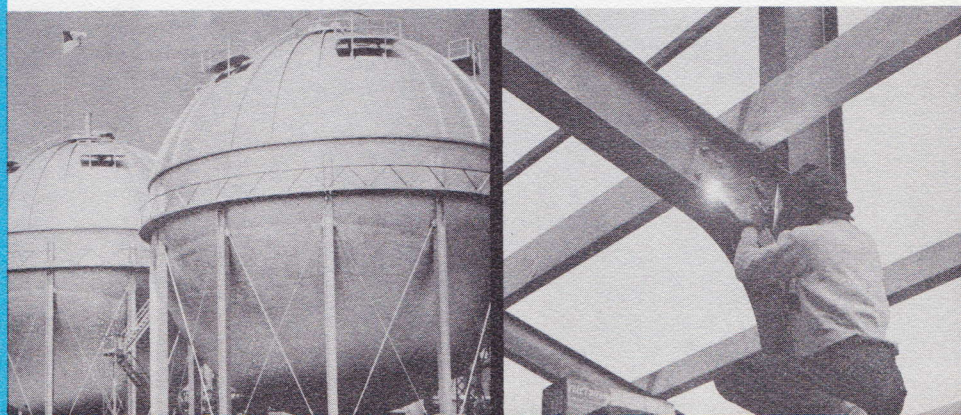
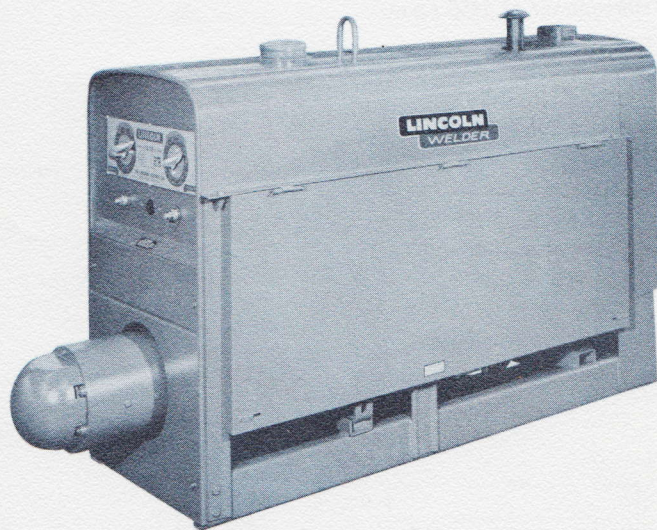
# LINCOLN

## SHIELD-ARC<sup>®</sup>

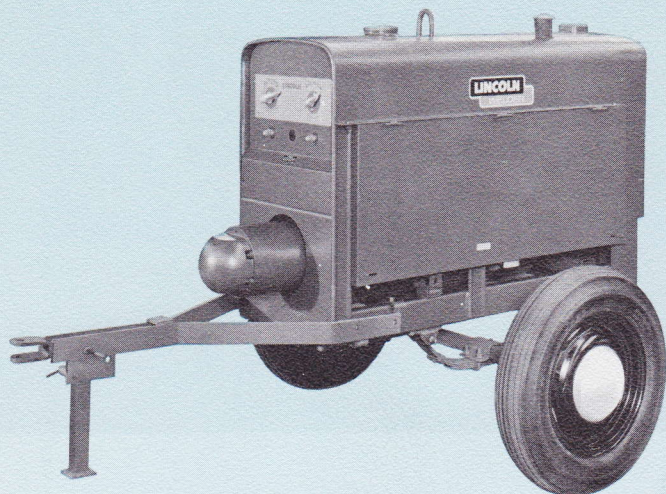
## SA-200-F162

(K-6090)

### Gasoline Engine Driven Welder







## SPECIFICATIONS

MODEL .....	SA-200-F162
TYPE .....	K-6090
Current Rating (NEMA) at 40 volts .....	200 amps
Duty Cycle .....	60%
Current Range .....	40 to 300
Engine, Continental 4-cylinder .....	F-162
Bore and Stroke .....	3 $\frac{1}{16}$ " x 4 $\frac{3}{8}$ "
Piston Displacement .....	162 cu. in.
Horsepower at 1450 r.p.m. ....	36

### OPERATING SPEEDS:

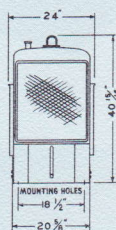
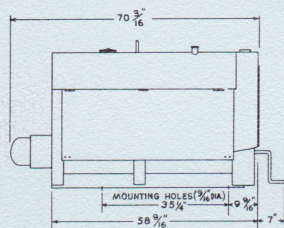
Full Load .....	1450 r.p.m.
High Idle .....	1550 r.p.m.
Low Idle .....	1000 r.p.m.

### CAPACITY:

Oil (Quarts) .....	4
Water (Quarts) .....	10 $\frac{1}{2}$
Gasoline (Gallons) .....	15

### WEIGHTS:

Net .....	1170 lbs.
Shipping Domestic .....	1260 lbs.
Shipping Export .....	1414 lbs.



## WELDER FEATURES

**CONTROLS**—Dual Controls for precise arc selection. Five-step current control and continuous voltage control give weldor the best arc for each application. Conveniently located on the rear panel where they may be adjusted while the doors are closed.

**SAFETY**—Completely enclosed electrical components (with exception of welding cable terminals) prevent accidental shorts. Terminals are on rear panel near the controls.

**AUXILIARY POWER**—A standard two-prong receptacle provides 1 KW of 115 volt DC auxiliary power for running lights and universal power tools. Standard at no extra cost on all Lincoln K-6090's.

**RUGGED CONSTRUCTION**—Every detail of the SA-200, from the sturdy frame to the protected radiator, has been designed to take the unavoidable abuse which occurs when hauling over rough terrain.

**NEMA RATING**—Assures that minimum output is sufficient to meet your needs. However, the K-6090 provides considerable capacity above the requirements of NEMA rating.

## ENGINE FEATURES

**ENGINE**—The dependable four cylinder Continental F-162 with a new high compression head operates at slow speed for least wear and longest life—has plenty of reserve power to give continued maximum output throughout its years of service.

**LUBRICATION**—Continental gear type oil pump. Fram oil filter assures delivery of clean oil—uses low cost replacement cartridges. System provides pressure lubrication to reduce wear on all main bearings, lower connecting rods, and camshaft bearings. Special pan provides oil even when the welder is on steep slopes.

**COOLING**—Extra large, positive pressure type radiator with 13 lb. cap reduces coolant boiling in summer and permits use of methanol anti-freeze in the winter. System has a Continental centrifugal, belt-driven water pump.

**FUEL SYSTEM**—Large welded steel gasoline tank is lead plated for corrosion resistance, holds 15 gallons for over twelve hours of continuous application without refilling. Sediment bowl in the gravity feed fuel line supplies clean gasoline to the Marvel-Schebler carburetor. The carburetor is a heavy-duty industrial up-draft type with both main and idling jets for smooth idling and economical operation.

**IGNITION SYSTEM**—Impulse starter coupling on high tension magneto fires at Top Dead Center for safe, easy, hand cranking—disengages after starting.

**GOVERNOR**—Gear driven, fly ball type, constant speed centrifugal governor maintains proper engine speed under all load conditions.

**AIR CLEANER**—Heavy duty, Donaldson stack type, oil bath filter keeps abrasive dust out of the engine—extends time between oil changes.

**ENGINE IDLER**—Automatically reduces engine speed when not welding, but only after sufficient time has gone by to allow changing electrodes without having engine slow down. Lincoln Type R-57, delayed action, AUTOMATIC idler conserves fuel, decreases wear and increases life.

## OPTIONAL FEATURES (at extra cost)

**UNDERCARRIAGE**—Lincoln's K-755 two wheeled pneumatic tired undercarriage is ideal for road towing. It is spring mounted and has a 63" tread for maximum stability. K-756 narrow tread undercarriage with 4.00 x 12 pneumatic tires is designed for inside use. 35" overall width enables handling through doorways and aisles.

**SELF-STARTER**—A 12 volt battery driven self-starter with magneto ignition and generator provides instant starting at the push of a button. A new type generator prevents overcharging, but makes possible fast charging when desired. Self-starters are factory installed on Model K-6090-SM. Also available as a Kit for field installation.

**VOLTAMMETER**—Factory installed voltammeter is available on special order.

## THE LINCOLN ELECTRIC COMPANY

CLEVELAND 17, OHIO

The World's Largest Manufacturer  
of Arc Welding Equipment  
and Electrodes



Litho in U.S.A.